

Spectrophotometric Determination Of Acetaminophen Content

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An accurate and simple method is proposed for the analysis of a three-component mixture composed of acetaminophen, salicylamide and codeine phosphate, without the necessity for the previous separation of any component. The first two components are determined directly by independent spectrophotometric measurements,

[Spectrophotometric determination of acetaminophen ...](#)

An ultraviolet spectrophotometric method has been developed for the determination of acetaminophen, phenylephrine hydrochloride, codeine phosphate, and pyrilamine maleate after a partial separation of them by means of column chromatography using alginic acid; codeine phosphate and phenylephrine hydrochloride are both eluted with 0.01 N HCl and determined simultaneously while acetaminophen and pyrilamine maleate are determined separately.

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A nitrosation reaction has been adopted for the spectrophotometric determination of acetaminophen and salicylamide. The selectivity of the reaction is increased through utilisation of the nitroso derivatives as chelating agents for cobalt(II) and copper(II) ions. The optimum experimental conditions for the applicat

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[Spectrophotometric Determination Of Acetaminophen Content](#)

Abstract. A new spectrophotometric method for the determination of Acetaminophen (Paracetamol) (ACT) in pure form is described. The procedure is based on the blue colour developed, when the ACT reacts with molybdato phosphoric acid (MPA) in acidified solution under heat treatment.

[Spectrophotometric Determination of Acetaminophen by ...](#)

A rapid method for the routine determination of acetaminophen and dichloralantipyrene in capsules is reported. The determination of acetaminophen is based on the ability of its hydrolytic product, p-aminophenol, to produce an intensive yellow color with vanillin. The determination of dichloralantipyrene is based on the fact that it, as well as its major metabolite chloral hydrate, produces a blue color with quinaldine ethiodide.

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This procedure was also used for the determination of p-aminophenol in the presence of its degradation products. It was necessary, however, to separate the respective Schiff bases by TLC from the degradation products and the reaction mixture prior to spectrophotometric examination. Small amounts of p-aminophenol present in acetaminophen were quantitatively determined by applying the procedure to a water-ethanol (95:5 v/v) extract of the samples of acetaminophen.

Spectrophotometric determination of p-aminophenol alone or ...

It is described the use of 1,3-dinitrobenzene or 2,4-dinitrophenyl hydrazine is used as coupling agent for the spectrophotometric determination of paracetamol. ... acetaminophen content of ...

(PDF) Determination of paracetamol in pharmaceutical ...

According to the active groups in the chemical structure of paracetamol and the hydrolysed product (PAP), so that various methods have been used in spectrophotometric determination [12][13][14][15 ...

(PDF) Spectrophotometric Determination of Paracetamol in ...

The determination of acetaminophen is based on the ability of its hydrolytic product, p-aminophenol, to produce an intensive yellow color with vanillin. The determination of dichloralantipyrine is based on the fact that it, as well as its major metabolite chloral hydrate, produces a blue color with quinaldine ethiodide.

Spectrophotometric determination of acetaminophen and ...

Quantitative determination of acetaminophen in pharmaceutical formulations using differential scanning calorimetry. Comparison with spectrophotometric method. Campanella L(1), Magri AL, Tomassetti M, Rossi V, Vecchio S. Author information: (1)Department of Chemistry, University of Rome La Sapienza, P.le A. Moro, Rome, Italy.

Quantitative determination of acetaminophen in ...

This paper presents a simultaneous spectrophotometric determination of aspirin, paracetamol, caffeine, and chlorphenamine from commercial pharmaceutical products using principal component regression and partial-least squares regression. The concentration of the training set was established employing a partial factorial calibration design at four levels.

Simultaneous Spectrophotometric Determination of Aspirin ...

A new, simple and sensitive spectrophotometric method for the determination of paracetamol has been developed. The proposed method is based on the reaction of paracetamol with iron(III) and a subsequent reaction with ferricyanide in an hydrochloric acid medium to yield Prussian bluish green coloured product with a maximum absorption at 715 nm.

[PDF] Spectrophotometric Estimation of Paracetamol in Bulk ...

ABSTRACT: A rapid and simple spectrophotometric method is reported here for the determination of paracetamol in a commercially available tablet formulation. The method is based on the diazotization of hydrolyzed paracetamol with 8-hydroxyquinoline as a coupler to form stable azo dyes color solution. The concentration of drug paracetamol was investigated by spectrophotometrically.

SPECTROPHOTOMETRIC DETERMINATION OF PARACETAMOL DRUG USING ...

A method using cyclic voltammetry has been developed for the determination of acetaminophen in paracetamol tablets. The peak current from acetaminophen in 0.10 mol L⁻¹ phosphate buffer pH 7.0 was measured with a glassy carbon electrode versus Ag/AgCl. The optimum step potential and scan rate were found to be 0.0005 V and 0.1000 V/s, respectively.

[PDF] CYCLIC VOLTAMMETRIC DETERMINATION OF ACETAMINOPHEN ...

Spectrophotometric Determination of Aspirin Experiment 8. The drug with the greatest volume of use is the analgesic, aspirin. The pure compound (acetylsalicylic acid) with some binder is made into tablets, weighing slightly less than a third of a gram. When treated with basic solution the acetylsalicylic acid hydrolyzes quickly to salicylic acid and acetate ions.

Spectrophotometric Determination of Aspirin

UV spectrophotometric simultaneous determination of paracetamol and ibuprofen in combined tablets by derivative and wavelet transforms ScientificWorldJournal . 2014;2014:313609. doi: 10.1155/2014/313609.